

Section I:

AMENDMENT UNDER 37 CFR §1.121 to the

CLAIMS

Claim 1 (currently amended):

A method for detecting a free-space gesture signature conducted with a gesturing instrument, said method comprising the steps of:

providing a panel mounted on a controlled system, the panel having a plurality of gesturing sensors in a two-dimensional arrangement, each sensor being adapted to detect a gesturing instrument within a proximity of a sensor, each sensor having an independent detection event signal, wherein said sensors comprise an array of Radio Frequency Identification (RFID) sensors adapted to detect movement of RFID devices;

determining a sensor sequence from a series of sensor detection events responsive to movement of a gesturing instrument within the proximity of said plurality of sensors;

correlating said sensor sequence to a predetermined sequence in order to authenticate a user of said gesturing instrument; and

responsive to authentication of said user, authorizing a physical security action.

Claim 2 (original):

The method as set forth in Claim 1 wherein said step of determining a sensor sequence comprises applying timing analysis to said series of sensor detection events.

Claim 3 (original):

The method as set forth in Claim 1 wherein said step of correlating said sequence to an authorized sequence further comprises authorizing a financial transaction.

Claim 4 (previously presented):

The method as set forth in Claim 1 wherein said step of authorizing a physical security action comprises unlocking a fuel pump.

Claim 5 (previously presented):

The method as set forth in Claim 1 wherein said step of authorizing a physical security action comprises unlocking a door.

Claim 6 (previously presented):

The method as set forth in Claim 1 wherein said step of authorizing a physical security action comprises allowing removal of a physical item from a controlled access area.

Claim 7 (cancelled).

Claim 8 (original):

The method as set forth in Claim 1 wherein said step of providing a plurality of gesturing sensors comprises providing an array of acoustic sensors adapted to detect movement of acoustic-reflective gesturing instruments.

Claim 9 (original):

The method as set forth in Claim 1 wherein said step of providing a plurality of gesturing sensors comprises providing an array of infrared ("IR") sensors adapted to detect movement of gesturing instruments which are distinguishable by heat.

Claim 10 (currently amended):

A computer readable medium encoded with software for free space gesture signature conducted with a gesturing instrument, said software causing a processor to perform the steps of:

receiving detection event signals from a plurality of gesturing sensors in a two-dimensional arrangement, each sensor being adapted to detect a gesturing instrument within a proximity of a sensor, each sensor having an independent detection event signal output, the sensors being arranged on a panel mounted on a controlled system, wherein said sensors comprise an array of Radio Frequency

Identification (RFID) sensors adapted to detect movement of RFID devices;

determining a sensor sequence from a series of sensor detection events responsive to movement of a gesturing instrument within the proximity of said plurality of sensors;

correlating said sensor sequence to a predetermined sequence in order to authenticate a user of said gesturing instrument; and

responsive to authentication of said user, authorizing a physical security action.

Claim 11 (original):

The computer readable medium as set forth in Claim 10 wherein said software for receiving detection event signals from a plurality of gesturing sensors comprises software for applying timing analysis to said series of sensor detection events.

Claim 12 (original):

The computer readable medium as set forth in Claim 10 wherein said software for correlating said sequence to an authorized sequence further comprises software for authorizing a financial transaction.

Claim 13 (previously presented):

The computer readable medium as set forth in Claim 10 wherein said software for authorizing a physical security action comprises software for unlocking a fuel pump.

Claim 14 (previously presented):

The computer readable medium as set forth in Claim 10 wherein said software for authorizing a physical security action comprises software for actuating a door lock.

Claim 15 (previously presented):

The computer readable medium as set forth in Claim 10 wherein said software for authorizing a physical security action comprises software for allowing removal of a physical item from a controlled access area.

Claim 16 (cancelled).

Claim 17 (original):

The computer readable medium as set forth in Claim 10 wherein said software for receiving detection event signals from a plurality of gesturing sensors comprises software for receiving signals from a plurality of acoustic sensors adapted to detect movement of acoustic-reflective gesturing instruments.

Claim 18 (original):

The computer readable medium as set forth in Claim 10 wherein said software for receiving detection event signals from a plurality of gesturing sensors comprises software for receiving signals from a plurality of infrared ("IR") sensors adapted to detect movement of gesturing instruments which are distinguishable by heat.

Claim 19 (currently amended):

A system for detecting a command or identifying value made by a user through a gesture signature conducted with a gesturing instrument, said system comprising:

a panel mounted on a controlled system, the panel having a plurality of gesture sensors organized in a two-dimensional arrangement, each sensor having an independent detection event signal which is activated upon detection of a gesturing device within the proximity of a sensor, wherein said sensors comprise an array of Radio Frequency Identification (RFID) sensors adapted to detect movement of RFID devices;

a gesture recognition processor having a plurality of inputs for said independent detection event signals, and for performing the steps of:

determining a sensor sequence from a series of sensor detection events responsive to movement of a gesturing instrument within the proximity of said plurality of sensors;

correlating said sensor sequence to a predetermined sequence in order to authenticate a user; and

responsive to said authentication of said user, controlling a physical security action.

Claim 20 (original):

The system as set forth in Claim 19 wherein said processor is adapted to apply timing analysis to said series of sensor detection events.

Claim 21 (original):

The system as set forth in Claim 19 wherein said processor is adapted to perform financial transaction authorizations.

Claim 22 (previously presented):

The system as set forth in Claim 19 wherein said control of a physical security action comprises controlling a fuel pump.

Claim 23 (previously presented):

The system as set forth in Claim 19 wherein said processor is adapted to actuate a door lock.

Claim 24 (previously presented):

The system as set forth in Claim 19 wherein said processor is adapted to allow removal of a physical item from a controlled access area.

Claim 25 (cancelled).

Claim 26 (original):

The system as set forth in Claim 19 wherein said plurality of gesture sensors comprises an array of acoustic sensors adapted to detect movement of acoustic-reflective gesturing instruments.

Claim 27 (original):

The system as set forth in Claim 19 wherein said plurality of gesture sensors comprises an array of infrared ("IR") sensors adapted to detect movement of gesturing instruments which are distinguishable by heat.